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1. [14.2-FA2: 14.2-FA2 Management System Display to Track Emergency Response Vehicles and Mutual Aid During a Crash Response](#)

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

Disaster response at airports involves integration of airport fire rescue with emergency personnel and equipment from the surrounding community. The current response model is built upon the concept of mutual aid. As such, airport command authorities face the task of coordinating and tracking multiple disparate fire rescue units and personnel. Technology could provide an integrated command and control system.

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2. [14.2-FA1: Commercial Space Vehicle Tracking Using 1090 MHz ADS-b](#)

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

Commercial space vehicles licensed by the FAA include launch vehicles, re-entry vehicles and manned high altitude balloons. Operations of commercial space vehicles will become increasingly frequent and then routine in various regions of the US. The primary objective of this research is to ensure no degradation to both the safety and efficiency of the National Airspace (NAS) for other N ...

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3. 14.1-FH6: Corrosion Resistant Prestressing Strand for Prestressed Concrete Bridges

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

The number of prestressed concrete bridge structures utilizing high strength 7-wire strand (black strand) has increased steadily since the 1970s. The prestressing strand can be used in both the pre-tensioned and post-tensioned (PT) structures. Two years ago, the University of Texas completed a study where they evaluated various types of prestressing to determine their corrosion-resistance, includi ...

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4. 14.2-FH1 : Decentralized, Public, and Mobile-Based Sidewalk Inventory Tool

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

Communities throughout the U.S. are increasingly encouraging walking for transportation and recreation in order to meet a range of safety, health, equity, sustainability, and other goals. One way to accomplish this is by actively working to fill gaps in the pedestrian network and to improve sidewalks or other pedestrian pathways that have fallen into disrepair. A significant challenge to working m ...

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5. 14.2-PH1: Develop and demonstrate new non-destructive evaluation methods to quantify remaining strength of line pipe steel and or pipeline fittings

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

Pipeline and Hazardous Materials Safety Administration The energy transportation network of the U.S. consists of over 2.6million miles of pipelines. That's enough to circle the earth about 100 times. These pipelines are operated by approximately 3,000 companies, large and small. U.S. operators transport almost two-thirds of the Nation's energy. According to the U.S. Energy Informati ...

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6. 14.1-FH1: Development of Prestressed Concrete Nondestructive Evaluation (NDE) Inspection Procedures

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

Approximately 66% of existing concrete bridges consist of prestressed concrete components (calculated by deck area). Prestressed concrete is constructed using either pre tensioned or post tensioned steel tendons as tensile reinforcement. Similar to traditional reinforcement (rebar), these tendons experience degradation due to corrosion and carbonation. However, unlike typical str ...

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7. [14.2-NH1 : Device to Address the Competing Needs of Ensuring Lockability of Seat Belts and Mitigating Entrapment Risk in Mis-Use Conditions](#)

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

The Federal Motor Vehicle Safety Standard (FMVSS) No. 208, "Occupant crash protection," requires that passenger seating positions of passenger cars and some other passenger vehicles have a seat belt assembly whose lap belt portion is lockable so that the seat belt assembly can be used to tightly secure a child restraint system. FMVSS No. 208 further specifies that the means to lo ...

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8. [14.2-FM1: Driver Fatigue and Distraction Monitoring and Warning System](#)

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

Driver fatigue and driver distraction are recognized as a continuing safety issue for commercial drivers. Driver fatigue is a major cause of CMV crashes, but fatigue causes are not well understood. Distraction-affected crashes were reported in ten percent of fatal crashes, 18 percent of injury crashes, and 16 percent of all motor vehicle traffic crashes in 2012 according to the Nationa ...

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9. [14.1-FR3: Easy Access to Freight Locomotives](#)

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

Engineers, Conductors and Brakemen enter and exit from Freight Locomotives several time per trip in the course of the workday. This entails walking on ballast on a slope. Steps allow the worker to climb up to the first step and the remaining steps to the platform., walk towards the cab entry door. Often the step up is conjunction with the locomotive movement at slow speeds. This is "risky&rd ...

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10. [14.1-FR1: Lightweight, Portable System for Mid-Chord Offset Measurement of Railroad Rails](#)

Release Date: 02-04-2014 Open Date: 02-04-2014 Due Date: 04-04-2014 Close Date: 04-04-2014

A common measurement for quantifying aspects of railroad track geometry is the mid-chord offset (MCO). MCO measurements enable railroads to maintain their track to safe standards that comply with federal regulations. In order to obtain MCO measurements, railroad personnel (as well as federal and state inspectors) use string line measurements to measure

right and left rail deviations in ...

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